24 May 2010, 7:00 am - 29 May 2010, 1:00 pm

Symposium Speakers

Multiple Authors

Nadania Idriss
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Born and raised in California, Nadania Idriss received her MA in Islamic Art and Architecture from the University of Victoria and is currently a postgraduate at the University of London, School of Oriental and African Studies. Nadania moved to Europe in 1996, where she worked at the British Museum in London and the Institute du Monde Arab in Paris on a Barakat Foundation scholarship. Nadania subsequently worked as a professional consultant at UNESCO in Paris. Since December 2007, Nadania is founder and director of New Glass Art & Photography, a fine art gallery for contemporary glass and photography in Berlin, Germany.

James Kenneth Mitchell
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Dr. James K. Mitchell is currently a University Distinguished Professor, Emeritus at Virginia Polytechnic Institute and State University in Blacksburg, Virginia and a Consulting Geotechnical Engineer.

Dr. James K. Mitchell received his Bachelor of Civil Engineering Degree from Rensselaer Polytechnic Institute in 1951, Master of Science Degree from the Massachusetts Institute of Technology in 1953, and the Doctor of Science Degree, also from M.I.T., in 1956.

He joined the faculty of the University of California, Berkeley in 1958 and held the Edward G. Cahill and John R. Cahill Chair in the Department of Civil Engineering at the time of his retirement from Berkeley in 1993. He served as Chairman of the Department of Civil Engineering from 1979 through 1984. He was appointed the first Charles E.Via, Jr. Professor in the Via Department of Civil Engineering at Virginia Tech in 1994, University Distinguished Professor in 1996, and University Distinguished Professor, Emeritus, in 1999.

His primary research activities have focused on experimental and analytical studies of soil behavior related to geotechnical problems, admixture stabilization of soils, soil improvement and ground reinforcement, physico-chemical phenomena in soils, the stress-strain time behavior of soils, in-situ measurement of soil properties, and mitigation of ground failure risk during earthquakes. He has authored more than 350 publications, including two editions of the graduate level text and reference, "Fundamentals of Soil Behavior," and several state-of-the-art papers. During the 1960's and early 1970's he served as the NASA Principal Investigator for the Soil Mechanics Experiment, which was a part of Apollo Missions 14-17 to the Moon.

Dr. Mitchell serves as a consultant to numerous governmental and private organizations on geotechnical problems and earthwork projects of many types, especially soil stabilization, ground improvement for seismic risk mitigation, earthwork construction, and environmental geotechnology, both nationally and internationally. Recent and currently active projects include the evaluation of seismic stabilities and design of liquefaction mitigation options for Success Dam and Isabella Dam (U.S. Army Corps of Engineers), the Folsom Project (U.S. Bureau of Reclamation) and San Pablo Dam (East Bay Municipal Water District) in California, Deer Creek Dam in Utah (U.S. Bureau of Reclamation), Tuttle Creek Dam for the Bay Area Rapid Transit System, foundation densification using explosive compaction at Seymour Falls Dam in British Columbia (Klohn-Crippen), and the Advisory Panel for the Craney Island Eastward Expansion and Marine Terminal (Virginia Port Authority). He recently served as a member of the ASCE External Review panel for the Performance Evaluation of Hurricane and Flood Protection Projects in S.E. Louisiana. He is an Honorary Member of ASCE and is a member of the U.S. Academy of Engineering and the Academy of Sciences.

W.D. Liam Finn
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W. D. Liam Finn graduated from the National University of Ireland in 1954 with a B.Eng. in Civil Engineering. He got his M.Sc. and Ph.D. from the University of Washington in Seattle in 1957 and 1960 respectively. After the 1964 Niigata Earthquake, he began to specialize in Geotechnical Earthquake Engineering and started the first program in Canada at the University of British Columbia (UBC) in Vancouver. He was Head of Civil Engineering and Dean of Applied Science at UBC. In 1999, he was appointed as the first Anabuki Professor of Foundation Geodynamics at Kagawa University, Takamatsu, Japan. Liam Finn is also president of Pan-American Engineering and Computing Services Ltd. in Vancouver. He is an Honorary International Member of the Japanese Geotechnical Society and the Chinese Society of Soil Dynamics, PRC. He is also an Honorary Professor of the Metallurgical Institute in Beijing. He is Editor of the International Journal of Soil Dynamics and Earthquake Engineering and is on the editorial boards of other journals. He is Chairman of TC-4 the Earthquake Engineering Committee of the International Society of Soil Mechanics and Geotechnical Engineering.

Finn's main research interest is geotechnical earthquake engineering with particular interest in liquefaction, seismic response of sites and earth structures, seismic safety evaluation of dams, seismic response of pile foundations and seismic risk. He has published over 300 papers on these topics. Finn consults internationally especially on the seismic safety of dams, beginning in 1967 with the Ingura dam in the old Soviet Union. He pioneered the use of dynamic effective stress analysis in practice in 1975 and the use of large strain deformation analysis for the analysis of post liquefaction deformation of dams in 1989 on Sardis Dam in Mississippi. . Finn is currently working on a major research project funded by the Anabuki Construction Company, Takamatsu, Japan on the seismic response of large diameter cast in place concrete piles in reclaimed land in which liquefaction effects are a major problem.

Ricardo Dobry
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Ricardo Dobry studied at the U. of Chile, UNAM (Mexico) and MIT. He is the current Director of the Center for Engineering Engineering Simulation, the RPI experimental node of the NSF supported NEES effort. His research interests include soil dynamics, geotechnical earthquake engineering and geotechnical dynamic centrifuge testing. He is one of the authors of the 20-year research plan in earthquake engineering prepared in 2003 by the Earthquake Engineering Research Institute for NSF. He has consulted in a number of projects, including design of the new Rion-Antirion Bridge in Greece, named the 2005 Outstanding Civil Engineering Achievement by ASCE. He was elected member of the U.S. National Academy of Engineering in 2004 “for fundamental contributions to multiple aspects of geotechnical earthquake engineering.”

Prof. Kenji Ishihara
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Kenji Ishihara, past president, ISSMGE, obtained his PhD. in 1963. From 1966 to 1967, he was a Visiting Research Associate at the University of Illinois in Urbana U.S.A. working under the advise of Professor P.B. Peck. He has been affiliated with the University of Tokyo since then, taking the post of professorship in geotechnical engineering for the period of 1977-1995. He has been Professor of Civil Engineering at Science University of Tokyo since 1995. He also teaches now at the Chuo University in Tokyo.
He served as secretary of the ISSMFE Japanese National Committee between 1970 and 1976 and acted as Vice-President of Asian region of ISSMFE in 1989-1993. He acted as chairman of TC4 in ISSMGE between the periods of 1985-1994. He took the office as President of ISSMGE for the period of 1997-2001.
His major research interest covers problems in the soil dynamics in earthquakes, including Liquefaction, and seismic stability of slopes and earth structures.

Professor Ishihara has served on various occasions as consultant or adviser to UNESCO projects (Balkan region, India) and UNDP projects (Chile, India, Iran). He has participated in the geotechnical investigations of recent earthquakes worldwide such as those in Romania (1977), Yugoslavia (1979), Chile (1985), Mexico (1985), Ecuador (1986), Armenia (1988), Tajikistan (1989), Philippines (1991) and Iran (1991). He is the author of a book "Fundamentals of Soil Dynamic" (1974) and text book "Soil Mechanics" (1988) both in Japanese, and has recently published through Oxford Press an English book entitled "Soil Behaviour in Earthquake Geotechnics."

He has been honoured with the 33rd Rankine Lecture of the British Geotechnical Society in 1993, the Terzaghi oration in 1997 at 14th ICSMGE in Hamburg, the 3rd H.B. Seed Medal of ASCE in 1998 and the Japan Academy Prize in 2000.

Professor Ross W. Boulanger, P.E.
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Professor Ross W. Boulanger has been at the University of California at Davis since 1992. His research interests are in geotechnical earthquake engineering, with emphases on liquefaction and its remediation, seismic soil-pile-structure interaction, and seismic response of earth structures.

His honors include the Norman Medal, the Walter L. Huber Civil Engineering Research Prize, and the Arthur Casagrande Professional Development Award from ASCE, and the Shamsher Prakash Research Award. He is Chair of ASCE's Earthquake Engineering and Soil Dynamics Committee, a member of the Research Committee for the Pacific Earthquake Engineering Research Center, a core member of the ISSMGE TC4, a member of the Consulting Board for Earthquake Analysis for the California Division of Safety of Dams, and a Technical Specialist to the US Army Corps of Engineers on dam safety and seismic remediation projects.

Raymond Bolton Seed
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Dr. Raymond B. Seed received his Bachelor of Science Degree in Civil Engineering from the University of California at Berkeley in 1980, and his Master of Science and Doctor of Philosophy Degrees, both in Geotechnical Engineering and both from the University of California at Berkeley, in 1981 and 1983, respectively. After working between 1980 and 1983 as an engineer for several geotechnical consulting firms, (Dames and Moore, Woodward-Clyde Consultants, and Converse Consultants), he joined the faculty of Stanford University where he served for four years as an Assistant Professor of Civil Engineering. He returned to U.C. Berkeley in 1987, where he is now a Professor of Civil and Environmental Engineering.
Since 1982, Professor Seed has served as a geotechnical consultant to numerous domestic and foreign engineering firms and government and civil agencies on problems spanning a number of areas including: geotechnical earthquake engineering, static and seismic stability evaluation and design of dams and embankments, analysis of soil-structure interaction, design and performance of buried structures and conduits, stability and performance of waste fills and repositories, advanced geotechnical laboratory testing for a variety of applications, seismic risk analyses of lifeline systems, seismic response analyses, slope stability studies, liquefaction hazard assessment and mitigation, foundation design, and geotechnical finite element analyses of a variety of problems.

The author of more than 200 professional research publications, Professor Seed's research activities also span a wide range of subject areas. His research has had a significant impact on geotechnical practice in a number of areas including: analysis of compaction-induced stresses and deformations, seismic stability and performance evaluation for dams and embankments, analysis of soil liquefaction potential and post-liquefaction behavior, analysis of reinforced soil systems and deep braced excavations, effects of site conditions on seismic site response, finite element analysis of soil-structure interaction, stability and performance evaluation for hazardous waste fills, risk assessment for levees and flood control systems, and others. He has led and/or participated in forensic studies of nine major earthquakes (domestic and foreign), multiple slope and dam failures, one tsunami, and the Kettleman Hills waste repository failure, and he led the NSF-sponsored independent investigation of the performance of the New Orleans regional flood protection systems following hurricane Katrina. He has also served as an advisor to local, state and national governmental agencies and professional organizations on the development of policies, design codes and practice in the fields of geotechnical and earthquake engineering.

Among the professional honors accorded him, he has received the ASCE Thomas A. Middlebrooks Award (1987 and 2006), the ASCE Edmund Friedman Young Engineer Award for Professional Achievement (1989), the ASCE Arthur Casagrande Award (1989), and the ASCE Huber Research Prize (1996) from the American Society of Civil Engineers, the Prakash Award for International Contributions to Seismic Geotechnics (1997), the Presidential Young Investigator Award (1985) from the U.S. National Science Foundation, a Special Resolution from the California Geology Board recognizing contributions to State seismic safety (2001), and a formal citation from the Egyptian Government's High and Aswan Dam Authority. He was twice selected as the Queen Mary Lecturer (ASCE; 2003 and 2006), and also as the 2006 George W. Sowers State of Practice Lecturer (ASCE). Professor Seed has also received a number of awards and honors recognizing his contributions as an educator, including the 1989 University of California Distinguished Teaching Award (the University's highest teaching award), the New Engineering Educator Excellence Award (1988) from the American Society for Engineering Education, and several other teaching awards from the Department of Civil Engineering at U.C. Berkeley.